



OPĆA PALEONTOLOGIJA

2. Vježbe

Načini fosilizacije i fosilna ležišta



DAN

i
NOĆ

na PMF-u

17.4.2026. - Zagreb

PETAK 13.03.

14:00 – 15:00 h

1. Benko Damjan
2. Bilić Lucija
3. Brozović Ivona
4. Cutvarić Daniel
5. Grgić Krešimir
6. Grgić Veronika
7. Jurić Nika
8. Kanić Petra
9. Kasumović Mihael

15:00 – 16:00 h

1. Kon Matej
2. Kožić Martin
3. Lisjak Matej
4. Nodilo Zandomenigo Nikola
5. Poleščak Jurica
6. Pranjić Lucija
7. Ramljak Tina
8. Rauš Mihael
9. Ritoša Vid
10. Rogač Kiara

ZADAĆA

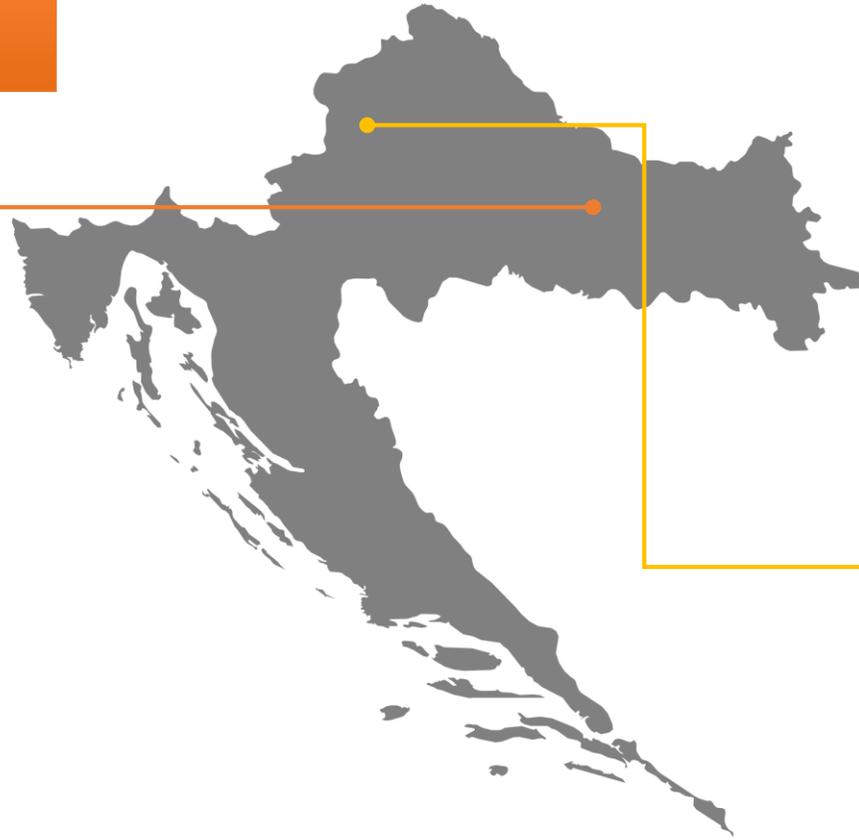
Nuvvuagittuq Greenstone Belt
starost 4,3 milijardi godina



cijanobakterije
starost 3,5 milijardi godina

ZADAĆA

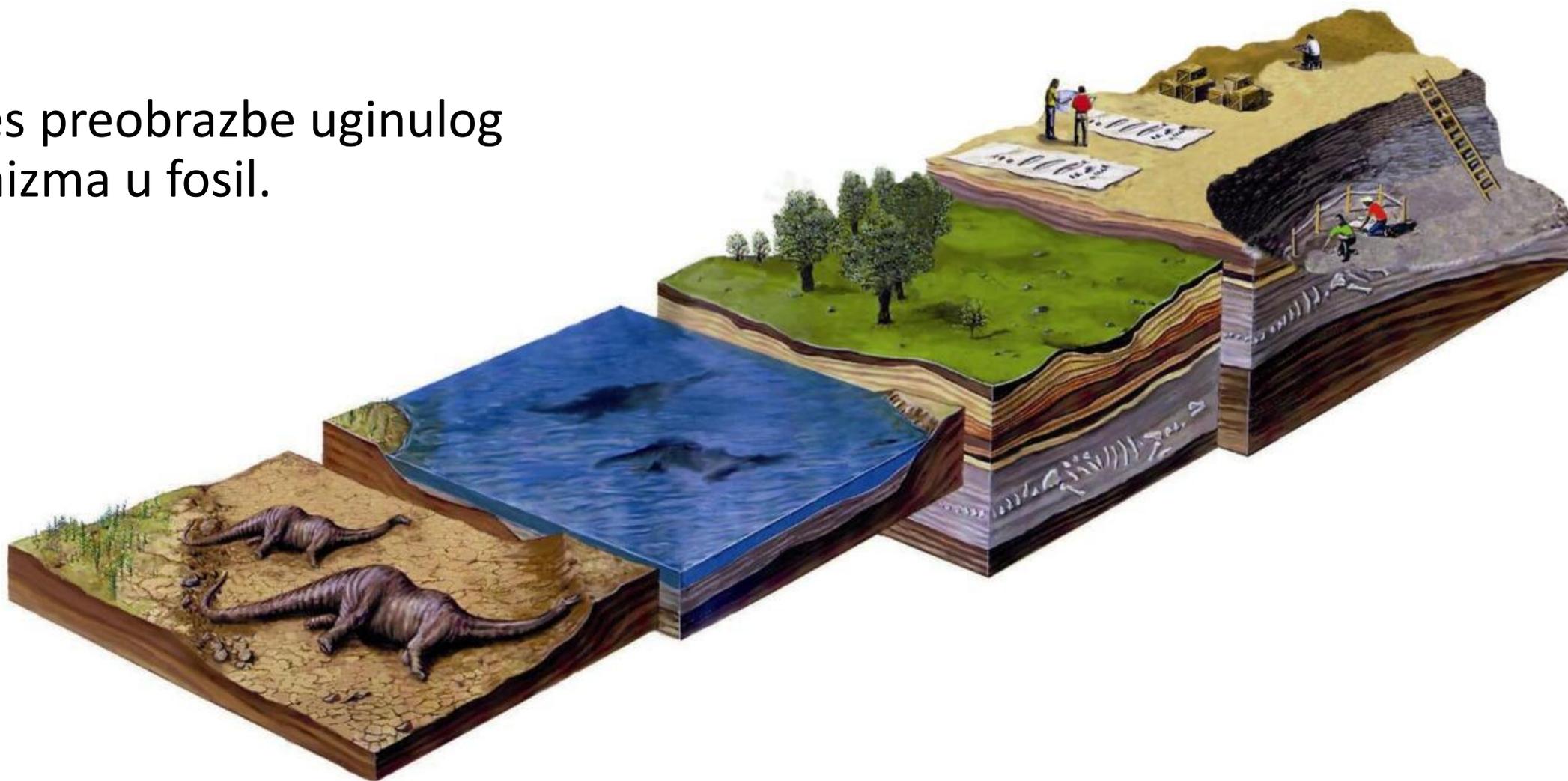
Metamorfiti Papuka, Psunja i
Moslavačke gore
starost 600 milijuna godina



graptoliti
starost 440 milijuna godina

ŠTO JE FOSILIZACIJA?

Proces preobrazbe uginulog organizma u fosil.



FOSILI

NEPOSREDNI OSTACI ORGANIZAMA

(različite ljušture, kućice, oklopi, čahure, čaške, kosti, zubi...)



POSREDNI OSTACI ORGANIZAMA

(tragovi životnih aktivnosti organizama (ihnofosili), jezgre, otisci...)



FOSILI



MIKROFOSILI

MAKROFOSILI



Mikropaleontologija < 2 mm < MAKROPALEONTOLOGIJA

VRSTE FOSILA

**PROVODNI
(INDEKS)
FOSILI**



**FACIJESNI
FOSILI**



**LITOGENETSKI
FOSILI**



IHNOFOSILI



PSEUDOFOSILI



FOSILIZACIJA



Proces preobrazbe uginulog organizma u fosil.

TAFONOMIJA

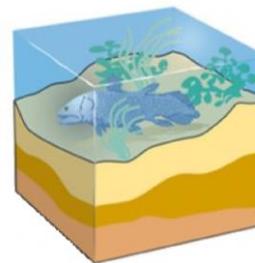


Znanost o procesima koji se zbivaju na organizmu od trenutka ugibanja do nastanka fosila.

1

NEKROLIZA

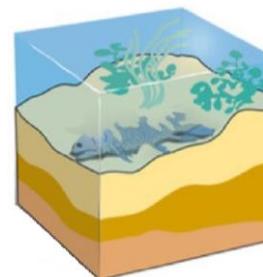
- procesi u vrijeme ugibanja, raspadanje dijelova organizma, **prije** uklapanja u sediment



2

BIOSTRATONOMIJA

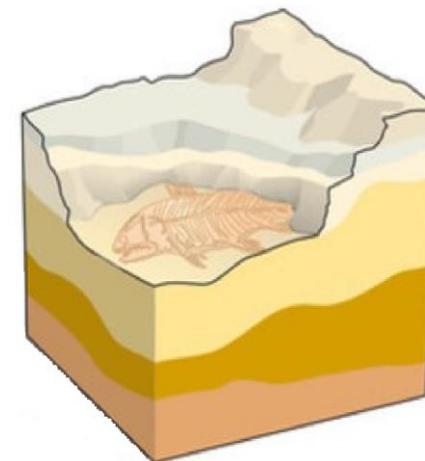
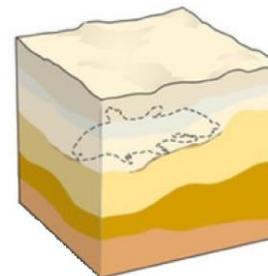
- **uklapanje** fosila u sediment (autohtonost, alohtonost)



3

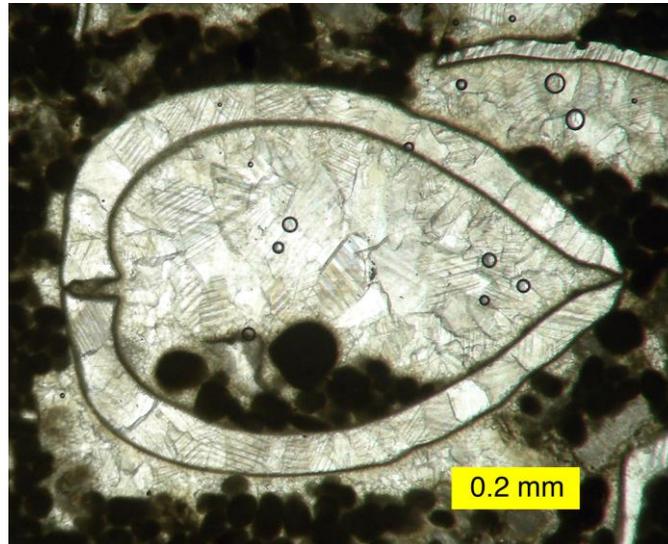
FOSILNA DIJAGENEZA

- kemijski procesi, **nakon** uklapanja fosila u sediment



PETRIFIKACIJA

1. Permineralizacija
2. Zamjena
3. Rekristalizacija



OTISAK

eng. external mold



KAMENA JEZGRA

eng. internal mold



SKULPTURIRANA KAMENA JEZGRA

eng. cast



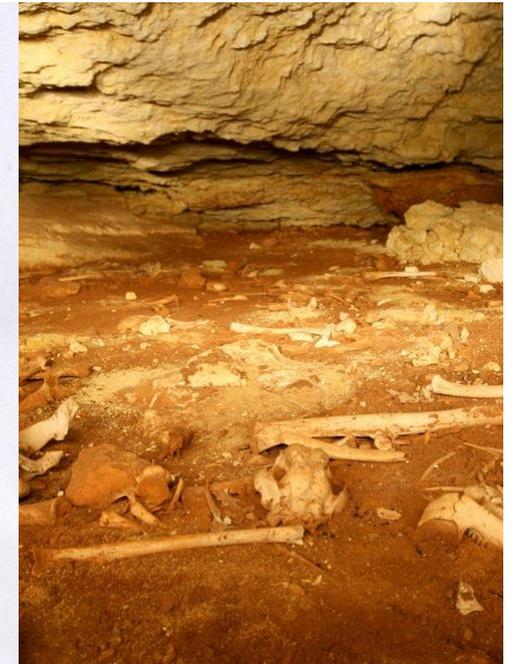
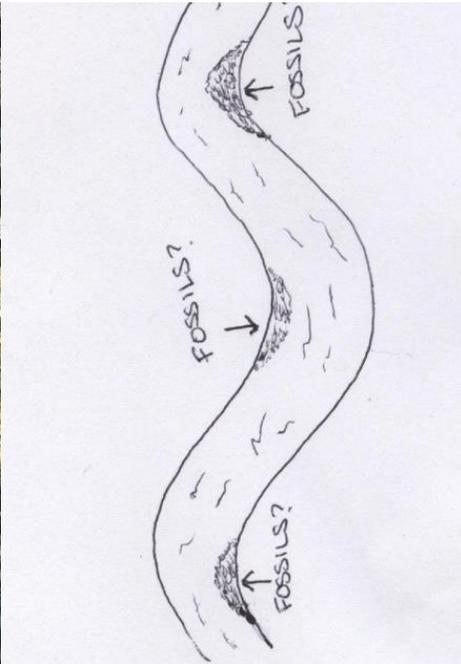
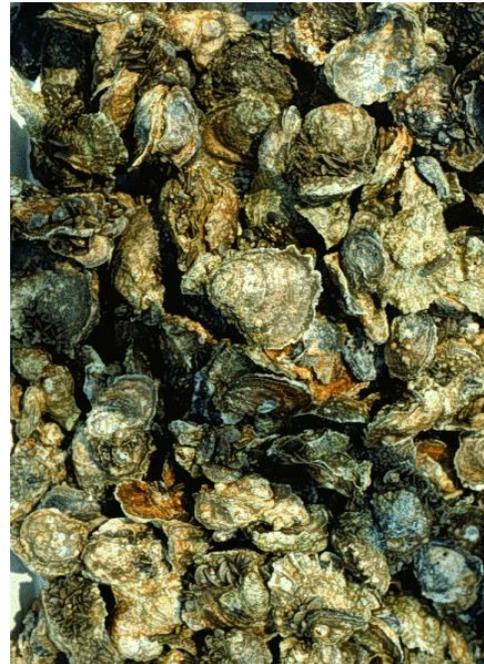
KARBONIZACIJA



FOSILNA LEŽIŠTA

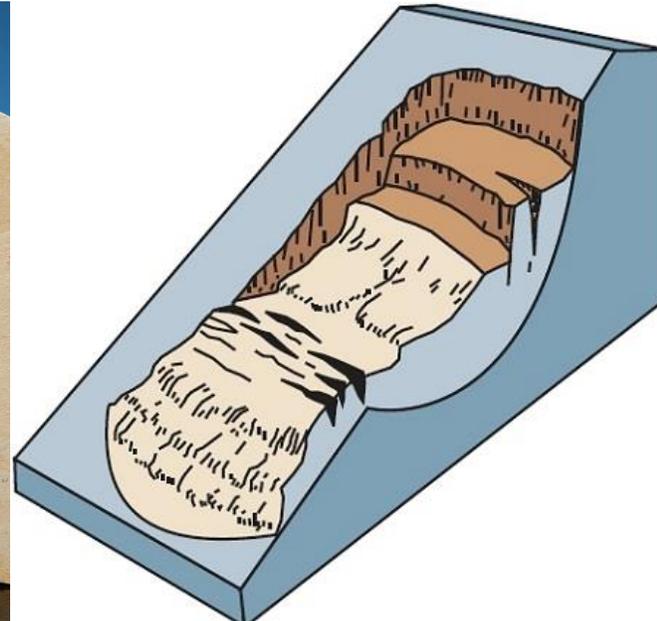
KONCENTRACIJSKA LEŽIŠTA

1. Kondenzacijska ležišta
2. Aluvijalna ležišta
3. Koncentracijske zamke



KONZERVACIJSKA LEŽIŠTA

1. Stagnacijska ležišta
2. Urušena ležišta
3. Konzervacijske zamke



Zadatok:

LOKACIJA

Rising Star Cave
Hell Creek Formation

STAROST

Gogo Formation
Yukon Permafrost

OKOLIŠ

ORGANIZMI

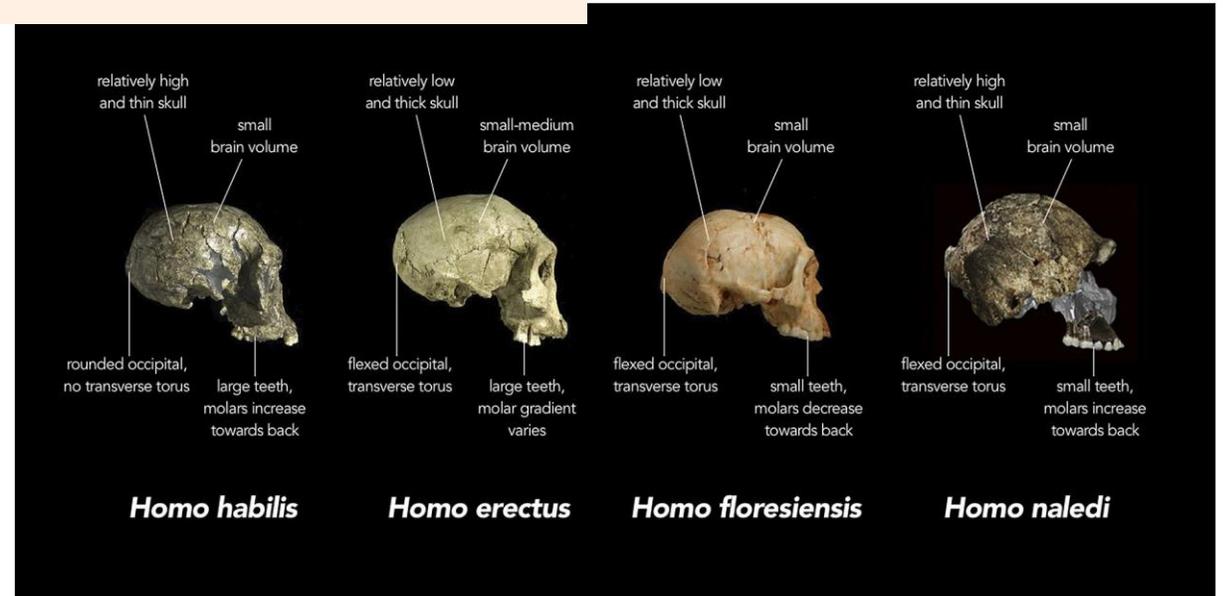
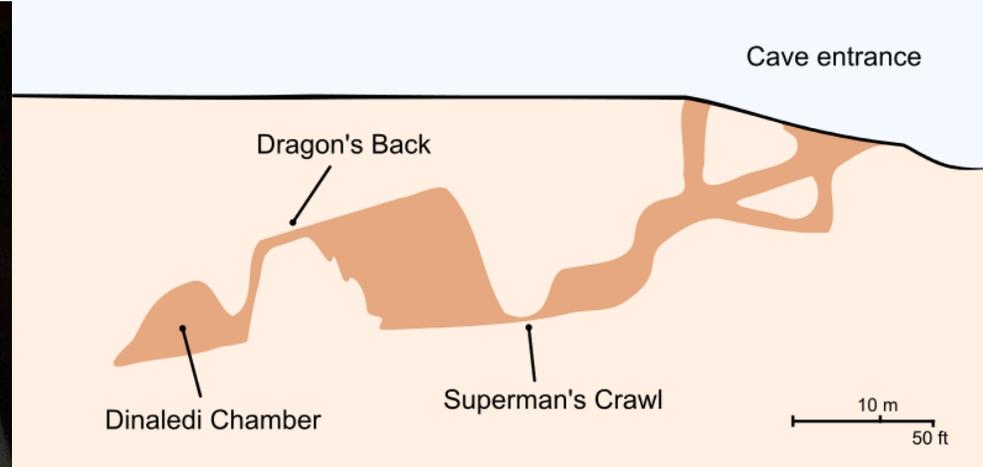
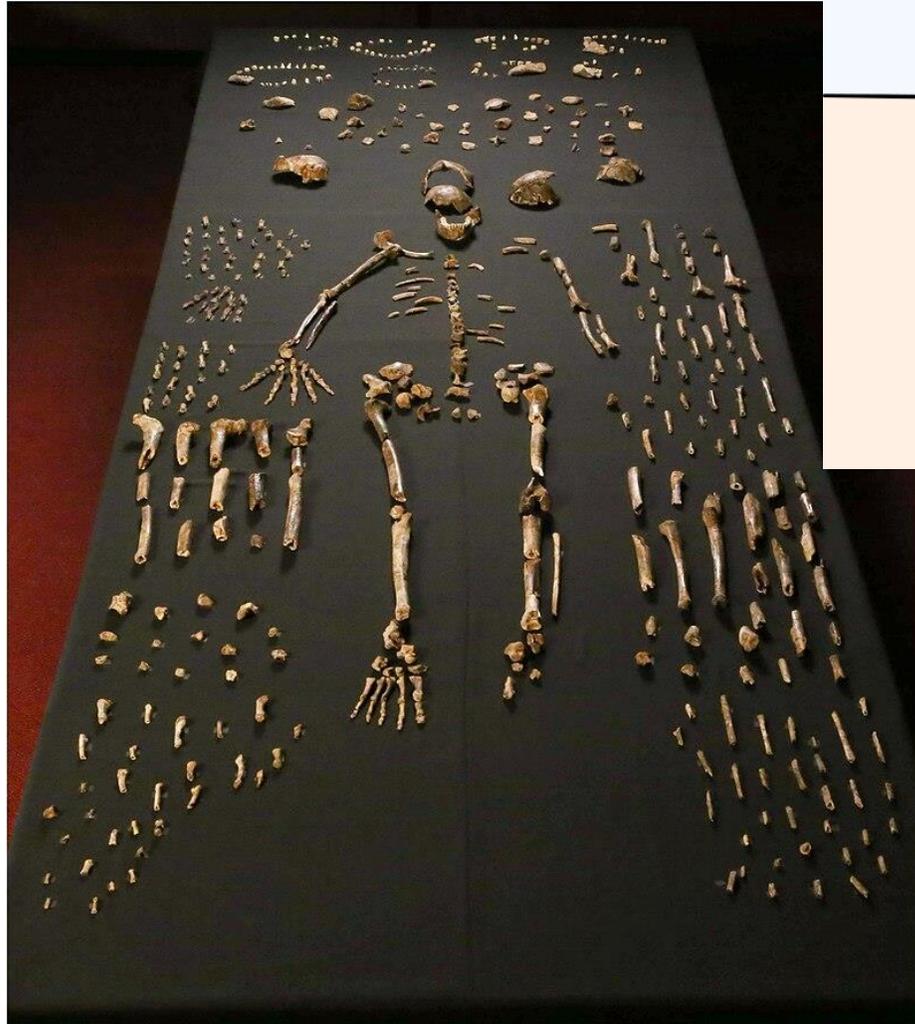
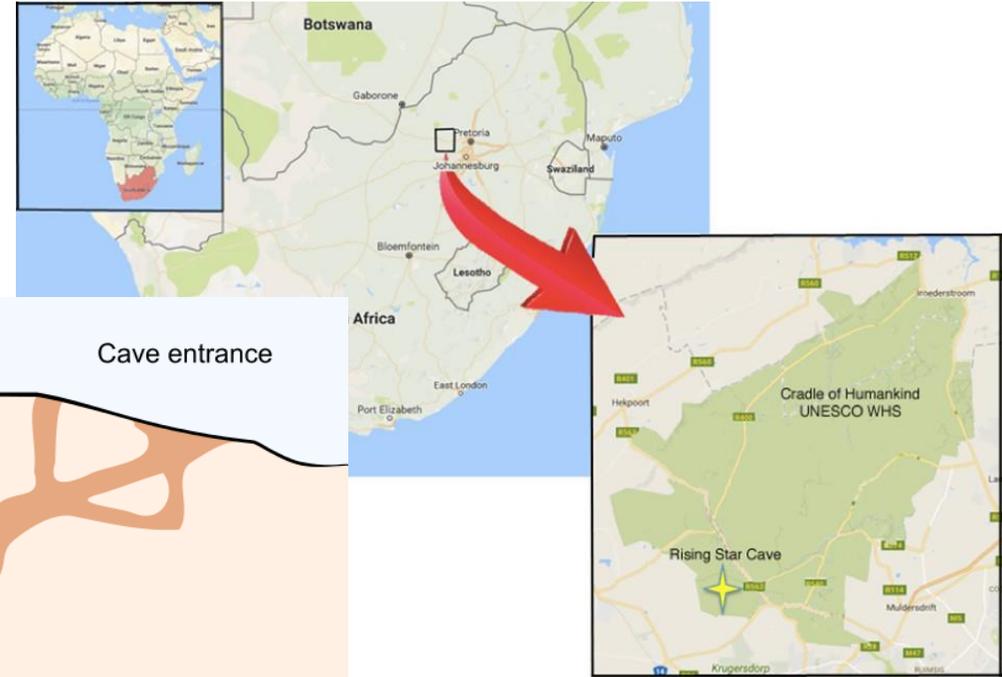
Qingjiang Biota
Dominican Amber

ZNAČAJ

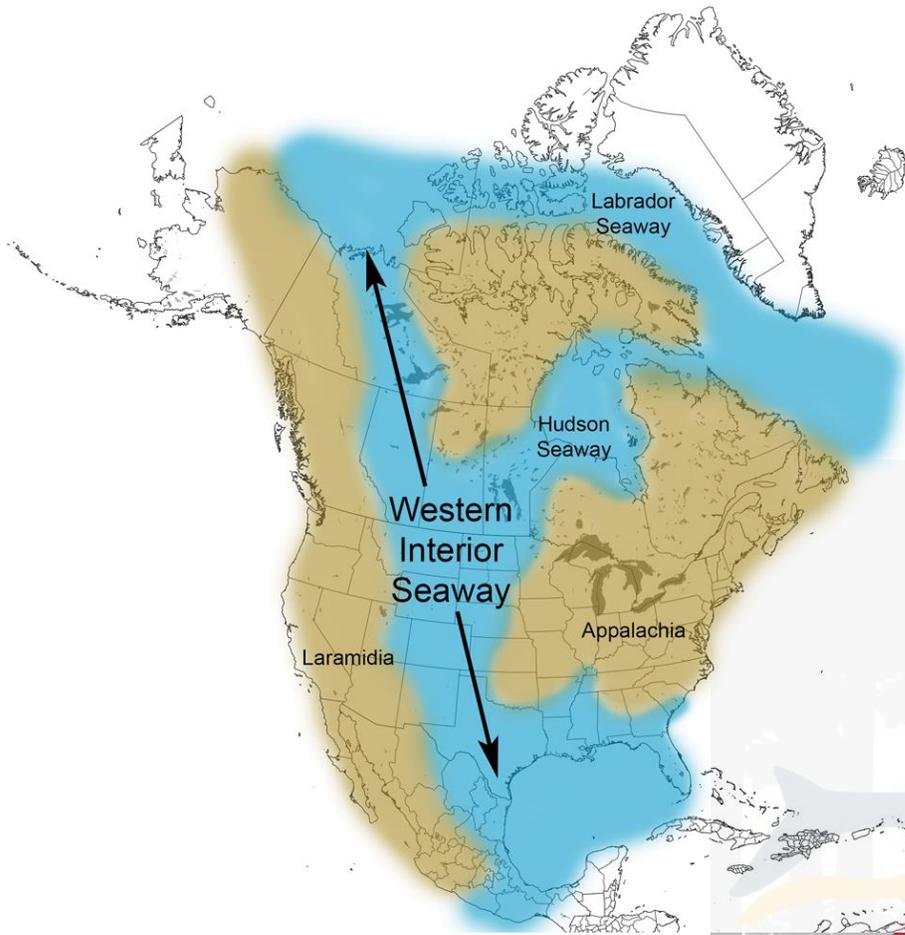
TIP LEŽIŠTA

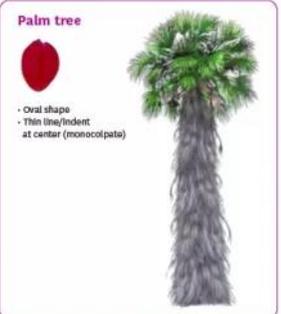
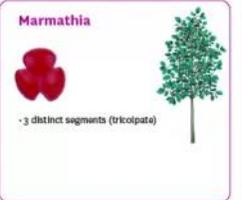
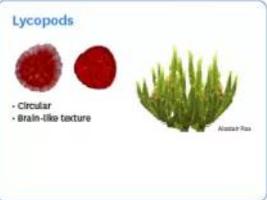
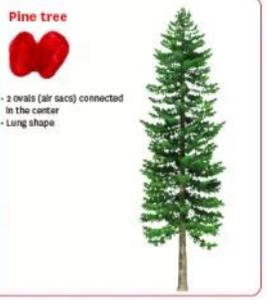


RISING STAR CAVE



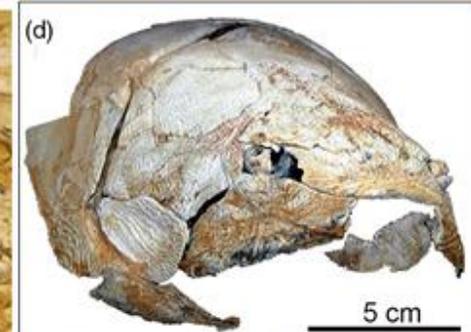
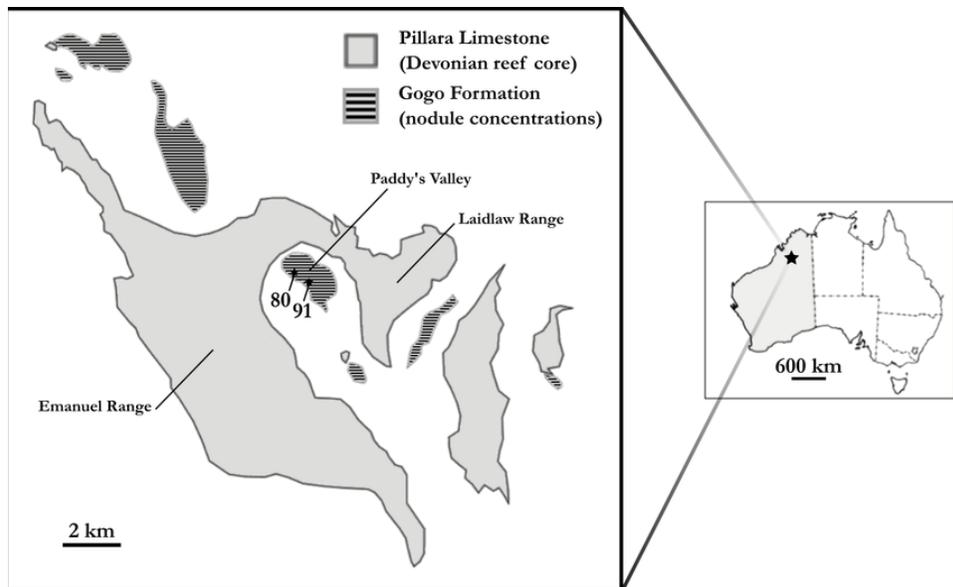
HELL CREEK FM.



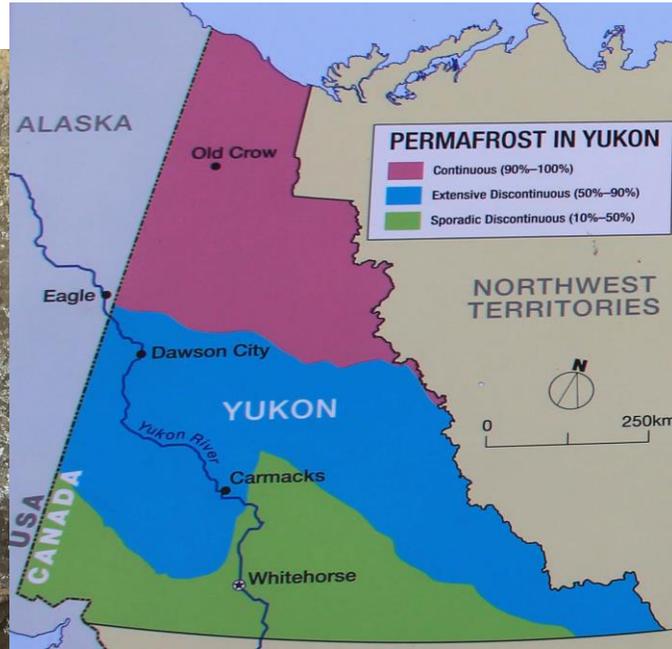
ANGIOSPERMS (FLOWERING PLANTS)		LYCOPODS	MOSS	
Palm tree  <ul style="list-style-type: none"> • Oval shape • Thin line/indent at center (monocotylate) 	Marmathia  <ul style="list-style-type: none"> • 3 distinct segments (tricolpate) 	Bisonia  <ul style="list-style-type: none"> • Multiple parts jutting out of body • Variety of textures (monocotylate) 	Lycopods  <ul style="list-style-type: none"> • Circular • Brain-like texture 	Spagnum moss  <ul style="list-style-type: none"> • Darker, star-like shape in middle • Dark ring around edge • Grows on rocks, logs
GYMNOSPERMS (GINKGO & CONIFERS)				
FERNS  <ul style="list-style-type: none"> • Rounded triangle • 3 straight lines in center <p>— OR —</p> <ul style="list-style-type: none"> • Bean shape 		Ginkgo tree  <ul style="list-style-type: none"> • Open in center • Oval shape • Light segment in center 	Pine tree  <ul style="list-style-type: none"> • 2 ovals (air sacs) connected in the center • Lung shape 	Bald cypress  <ul style="list-style-type: none"> • Pac-man shape • Split open • 2 dark lines • Loves water



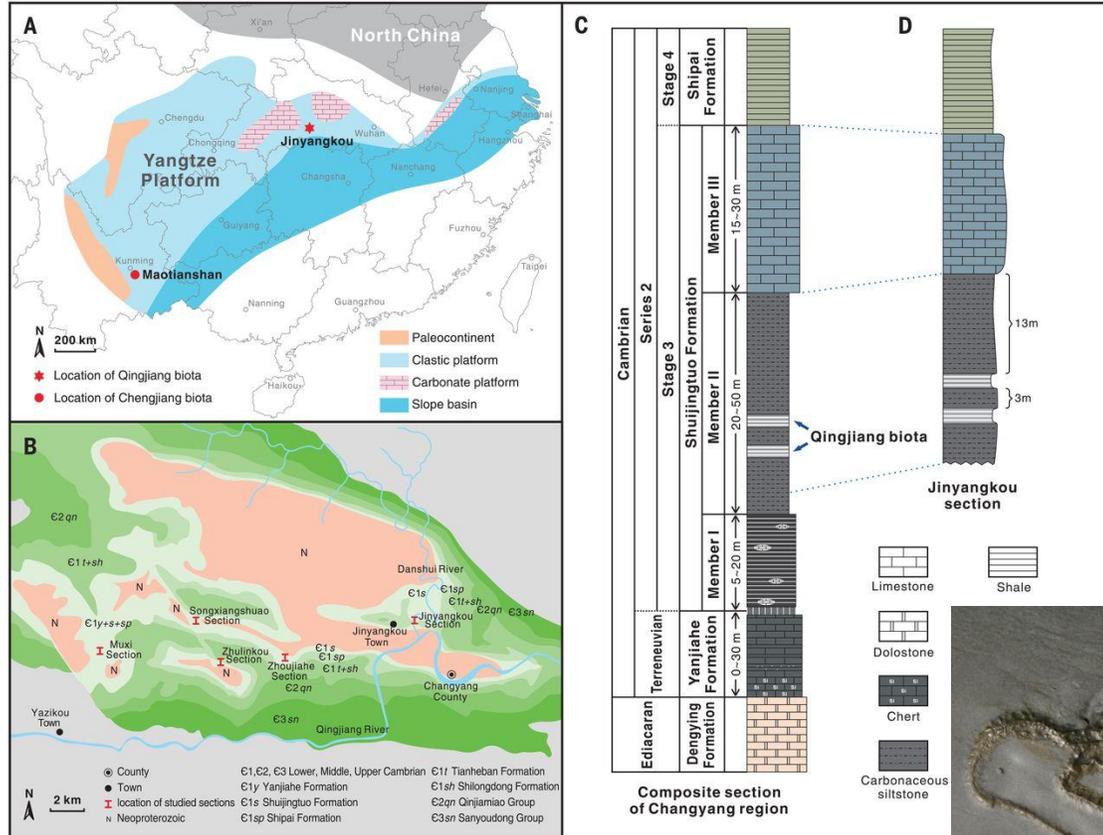
GOGO FM.



YUKON PERMAFROST



QINGJIANG BIOTA



DOMINICAN AMBER

